Notice of Allowability	10/644,306	SPRING ET AL.	
	Examiner	Art Unit	
	Craig A. Thompson	2813	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this appropriate communication GHTS. This application is subject	pplication. If not include on will be mailed in due of	ed course. THIS
1. A This communication is responsive to submission of 8/20/20	<u>003</u> .		
2. The allowed claim(s) is/are <u>1-24</u> .	·		
3. The drawings filed on 20 August 2003 are accepted by the	Examiner.		
4. Acknowledgment is made of a claim for foreign priority uner a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date [b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to the deponant of the paper No./Mail Paper No./Mail Date	been received. been received in Application No. cuments have been received in this of this communication to file a replication. itted. Note the attached EXAMINE es reason(s) why the oath or declar of the submitted. Son's Patent Drawing Review (PTC) s Amendment / Comment or in the .84(c)) should be written on the draw he header according to 37 CFR 1.12 sit of BIOLOGICAL MATERIAL	s national stage applicately complying with the requirement of the front (not the fid). In must be submitted. Note that the submitted of the fid).	puirements OTICE OF
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	5. Notice of Informal 6. Interview Summar Paper No./Mail D 7. Examiner's Amend 8. Examiner's Staten 9. Other	ry (PTO-413), Pate dment/Comment	·

Application No.

Applicant(s)

Art Unit: 2813

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: prior art of record does not describe or suggest applicants' invention set forth in claims 1-11, a method for manufacturing a MOSgated (MOS gated) device wherein spaced apart insulating bodies are formed of a first thickness over a major surface of a semiconductive body, and insulation layer of a second thickness is formed over a first major surface in areas between the insulating bodies wherein the second thickness is thinner than the first, a gate electrode and a body region are formed, and regions of a first conductivity type are formed in the body regions, in the context of the recited process. Similarly, prior art of record does not describe or suggest the invention of claims 12-22, a method for forming a MOSgated device wherein a body region of a second conductivity type is formed in a semiconductive body of a first type, regions of a second conductivity type are formed in the body regions, each region being spaced apart from the semiconductive body and implanting dopants to form deep junctions, in the context of the recited device. Finally, prior art of record does not describe or suggest the invention os claim 23, a process for manufacturing a MOSFET device wherein a substrate of a first conductivity type is provided having an epitaxial layer of the same conductivity type formed on a top surface thereof, base regions are formed of a second conductivity type in the epitaxial layer, source regions of a first conductivity type are formed in the base regions, and deep junctions of a second conductivity type are formed under the base regions by multiple implants, in the context of the recited process.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Cited Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Chang et al (U.S. Patent No. 6,380,569) teaches a method for making a high power unipolar switch (abstract and title). Darwish et al. (U.S. Patent No. 6,008,520) teaches a method for making a trench MOSFET with a heavily doped delta layer to provide low on resistance (abstract and title). Finally, Fristna et al. (U.S. Patent numbers 6,468,866 and 5,985,721) teach methods for making single feature size MOS technology power devices (abstracts and titles).

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Craig A. Thompson whose telephone number is (571)272-1699. The examiner can normally be reached on Monday-Friday 8:00 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead, Jr. can be reached on (571)272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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